# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

## BYATARAYANAPURA DIVISION

## BYATARAYANAPURA SUB DIVISOIN

**Name of the Work : Maintenance of UGD Lines in Ward No. 06**

**Estimated Cost : 7.50 Lakhs**

**Job Code: 006-20-000201**

# ಅಂದಾಜು ಪಟ್ಟಿಯ ವರಧಿ

**ವಿಷಯ: ವಾರ್ಡ್ ನಂ. 06(ಥಣಿಸಂಧ್ರ) ವ್ಯಾಪ್ತಿಯ Maintenance of UGD Lines in Ward No. 06 ಕಾಮಗಾರಿಗೆ ಅನುಮೋದನೆ ನೀಡುವ ಕುರಿತು.**

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ವಾರ್ಡ್ ನಂ. 06(ಥಣಿಸಂಧ್ರ) ವ್ಯಾಪ್ತಿಯ Maintenance of UGD Lines in Ward No. 06 ಕಾಮಗಾರಿಗೆ ರೂ. 7.50 ಲಕ್ಷಗಳ ಅಂದಾಜು ಮೊತ್ತದಲ್ಲಿ 2019-20 ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದಲ್ಲಿ 14ನೇ ಹಣಕಾಸು ಆಯೋಗದ ಅನುದಾನದ ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಪಿ-3295ರ ಅಡಿಯಲ್ಲಿ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಒಳಚರಂಡಿ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು ಅನುದಾನವನ್ನು ಮೀಸಲಿಟ್ಟಿರುತ್ತದೆ.

ಅದರಂತೆ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿಗೆ 006-20-000201 ರಂತೆ ಕಾಮಗಾರಿ ಸಂಕೇತ ನೀಡಲಾಗಿರುತ್ತದೆ. ಆದುದರಿಂದ ಕಾಮಗಾರಿ ನಿರ್ವಹಿಸುವ ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಿ, ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಈ ಕೆಳಕಂಡ ಐಟಂಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

1. ಒಳಚರಂಡಿ ಪೈಪ್‌ಲೈನ್ ಅಳವಡಿಸುಲು ಮಣ್ಣು ಅಗೆತ ಮಾಡುವುದು
2. ಎನ್‌ಪಿ-3 ಪೈಪ್‌ಗಳನ್ನು ಅಳವಡಿಸುವುದು.
3. ಎಂ-15 ಮಾದರಿಯ ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ಅಳವಡಿಸುವುದು,
4. ಆರ್.ಸಿ.ಸಿ ಛೇಂಬರ್‌ಗಳನ್ನು ನಿರ್ಮಾಣ ಮಾಡುವುದು
5. ಒಳಚರಂಡಿ ಪೈಪ್‌ಲೈನ್ ಅಳವಡಿಸಿರುವ ರಸ್ತೆಯನ್ನು ವೆಟ್‌ಮಿಕ್ಸ್ ಹಾಗೂ ಎಂ-7.5 ಎಂ-20 ಮಾದರಿಯ ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್‌ನಿಂದ Restore ಮಾಡುವುದು ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.

ಮೇಲ್ಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಬೆಂಗಳೂರು ವೃತ್ತ, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, 2018-19ನೇ ಸಾಲಿನ ದರ ಪಟ್ಟಿ ದರಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ, ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿ ತುರ್ತಾಗಿ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಬೇಕಾಗಿರುವುದರಿಂದ ಟೆಂಡರ್ ಕರೆದು ಗುತ್ತಿಗೆದಾರರನ್ನು ನೇಮಿಸಿ ಕಾರ್ಯದೇಶ ನೀಡಲು ಈ ಮೂಲಕ ಕೋರಲಾಗಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

## BRUHAT BANGALORE MAHANAGARA PALIKE

**NAME OF WORK:- Maintenance of UGD Line in ward no. 06**

| SL NO | SPECIFICATION | Unit | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| 1 | Cement concrete slab surface for pipeline trenches inside drain and disposing of the excavated stuff as directed including barricading, danger lighting etc., | | | | |
| | (BWSSB SR-2017-18/Page no.56/Sl no 16.2/Code SOR 17-18 A105B) | | | | |
| | **For 600 & 400 mm Diameter RCC NP-3 Class Sewer line** | | | | |
| | Stretch: No 1, L 30.00, B 1.10, D 0.30, Qty 9.90 | | | | |
| | MH2 - MH3: No 1, L 30.00, B 1.10, D 0.30, Qty 9.90 | | | | |
| | Deduct for manhole trench: No 2, L 2.2, B 1.1, D 0.3, Qty **-1.45** | | | | |
| | **Net Total** **21.25** | **Cum** | **21.25** | **1033.00** | **21951.25** |
| 2 | EXCAVATING FOR PIPE LINE TRENCHES OF REQIRED WIDTH by mechanical & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring,strutting, dewatering etc., IN ALL KINDS OF SOIL MIXED WITH BOULDERS O 30cms size etc., | | | | |
| a | **0 to 2 mtr depth** | | | | |
| | (BWSSB SR-2017-18/Page no.51/Sl no 1.1/Code SOR 17-18 A050A) | | | | |
| | **For 600 & 400 mm Diameter RCC NP-3 Class Sewer line** | | | | |
| | Stretch: No 1, L 30.00, B 1.10, D 1.70, Qty 56.10 | | | | |
| | MH2 - MH3: No 1, L 30.00, B 1.10, D 1.70, Qty 56.10 | | | | |
| | **Net Total** **112.20** | **Cum** | **112.2** | **167.00** | **18737.4** |
| 3 | In disintegrated rock, soft rock, soft shale and medium hard rock comprising of lime stone, sand stone, hard shale, schiest, fissured rock without resorting to blasting. | | | | |
| | (BWSSB SR-2017-18/Page no.51/Sl no 2.1 & 2.2/Code SOR 17-18 A055A&B) | | | | |
| a | 15% earth work Qty i.e, Item No.2a ( for 0 to 2 mtr depth ) **16.83** | **Cum** | **16.83** | **404.00** | **6799.32** |
| 4 | Hard rock by chiselling | | | | |
| | (BWSSB SR-2017-18/Page no.52 & 53/Sl no 5.1 & 5.2/Code SOR 17-18 A685A&B) | | | | |
| a | 15% earth work Qty i.e, Item No.2a ( for 0 to 2 mtr depth ) **16.83** | **Cum** | **16.83** | **1487.00** | **25026.21** |
| 5 | For bedding of sewer : KSRB 4.1 : Providing and laying in position plain cement concrete of mix M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,curing complete as per specifications. | | | | |
| | (PWD SR 2016-17/Page No.10/Item No.4.1) | | | | |
| | **For 600 & 450 mm Diameter RCC NP-3 Class Sewer line** | | | | |
| | Stretch: No 1, L 30.00, B 0.96, D 0.39, Qty 11.23 | | | | |
| | MH2 - MH3: No 1, L 30.00, B 0.96, D 0.39, Qty 11.23 | | | | |
| | Deduct for manholes: No 2, L 2.40, B 0.96, D 0.39, Qty -1.80 | | | | |
| | **Net Total** **35.88** | **Cum** | **35.88** | **5599.98** | **200927.282** |
| 6 | Supplying of following diameters S&S RCC SPUN/VIBRATED CAST PIPES (REINFORCED) OF NP-3 class confirming to IS456-1988 with latest amendments using ordinary port land cement, conveying to work site, rolling, lowering into trenches, laying true to line and level icluding at both destinations and joining of pipes and specials including cos of specials, including perfect linking of joints with jack to correct position including cost of jointing materials i.e, ribber rings confirmng to IS:5382 for S&S RCC pipes with all leads and lifts as directed as giving necessary hydraulic tests as per ISS and testing comissioning ec., completebefore execution of the wok, contractor shall carry out the survey and will be paid extra as per the separate Item. | | | | |
| | (BWSSB SR-2017-18/Page no.159/Sl no 5.5/Code SOR 17-18 T050E) | | | | |
| | **For 600 & 450 mm Diameter RCC NP-3 Class Sewer line** | | | | |
| | Stretch: No 1, L 30.00, Qty 30.00 | | | | |
| | MH2 - MH3: No 1, L 30.00, Qty 30.00 | | | | |
| | Deduction for manholes: No 2, L 1.20, Qty -2.40 | | | | |
| | **Net Total** **62.40** | **Rmt** | **62.4** | **2138.00** | **133411.2** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | Construction of RCC manhole chambers of 1:1.5:3 proportion or approved type pre-cast RCC manhole chambers, constructed using form vibrators of standard type, with barricading, danger lighting and using of sight rails and boning rods wherever necessary, shoring and strutting wherever required using ordinary port land cement. Using 1:1.5:3 proportion RCC with 20mm down graded jelly. well graded sand and steel of approved quality 200mm thick top concrete slab having wall thickness and raft thickness as in approved drawings and with an offset in raft alround the chamber as in approved drawing , benching concrete with 1:6 slope towards the central drain finished smooth, inclding fixing and grouting of pipes, including conveying to work spot supply and fixing SFRC manhole cover and frame confirming to IS:12592 with latest amendments on a bed of CC 1:2:4 supplying and fixing of minimum 3mm thick encapsulated plastic footstep (as per IS:10910)on 12mm dia. Grade Fe-415 steel bar (as per IS:1786) staggerd at 300 mm apart as detailed in technical specification, including sand bedding wherever required , diposal of surplus earth, watering, curing, engraving manhole number with flow direction on the inner cylindrical surface etc., complete including cost of reinorcement steel and fabrication charges and also cost and conveyance of all materials, labur with all lead ad lifts. The precast RCC manholes are for various diameters and depths as stated below and as per detailed drawings, specifications and direction of the engineer | | | | | | | | | |
| | **(1.2 m diameter manholes) - 2 mtr depth** | | | | | | | | | |
| | (BWSSB SR-2017-18/Page no.171/Sl no 106.5/Code SOR 17-18Tt330K) | | | | | | | | | |
| a | MH No. 1 to 5 | | | | | | **Nos** | **2** | **47373.00** | **94746** |
| b | For every 0.1m additional | | | | | | **Nos** | **20** | **1651.50** | **33030** |
| 8 | Refilling of avilable earth around pipeline in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering all lead and lifts including cost of all labour includiong consolidation by mecanical means approved by engineer Incharge. When earth is at suitable moisture content with desired field density (modified heavy proctor test) for restoration of roads without settelment including HOM of machineries. Complete (The contractor shall take are while consolidating the earth, so that, pipes laid are not damaged due to mechanical compaction and sall restore all the damaged pipes at his own cost, in case of | | | | | | | | | |
| | (BWSSB SR-2017-18/Page no.56/Sl no 14.1/Code SOR 17-18 A095A) | | | | | | | | | |
| | Stretch | No | L | B | D | Qty | | | | |
| | Total Excavation Qty | | | | | 112.20 | | | | |
| | Deduction for bedding of sewer (i.e, Item No.7) | | | | | -49.87 | | | | |
| | Deduction for 600mm dia pipe volume | 1 | 30.00 | 0.75 | 0.75 | -13.25 | | | | |
| | Deduction for 400mm dia pipe volume | 1 | 18.00 | 0.60 | 0.60 | -6.48 | | | | |
| | Net Total | | | | | **181.80** | **Cum** | **181.8** | **103** | **18725.4** |
| 9 | Disposa of the excess excavated earth of all type by vehical including loading, unloading with all lead and lifts, labour, HM of machineres etc., **- for 10kms** | | | | | | | | | |
| | (BWSSB SR-2017-18/Page no.57/Sl no 20.6/Code SOR 17-18 A115F) | | | | | | | | | |
| | Stretch | No | L | B | D | Qty | | | | |
| | Bedding of sewer Qty (i.e, Item No.5) | | | | | 15.00 | | | | |
| | 450mm dia pipe volume | 1 | 60.00 | 0.75 | 0.75 | 26.49 | | | | |
| | Wet mix Macadam Qty (i.e, Item no.17) | | | | | 6.75 | | | | |
| | Net Total | | | | | **48.24** | **Cum** | **48.24** | **243** | **11722.32** |
| | **Road Restoration** | | | | | | | | | |
| 10 | KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 | | | | | | | | | |
| | (PWD SR 2018-19/Page No.158/Item No.20.18) | | | | | | | | | |
| | Stretch | No | L | B | D | Qty | | | | |
| | Lateral linking 400mm dia | **1.00** | 60 | 0.6 | 0.15 | 5.40 | | | | |
| | Net Total | | | | | **5.40** | **Cum** | **5.4** | **2001.28** | **10806.91** |
| 11 | KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 | | | | | | | | | |
| | Bed Restoration = 40.44*1.1*0.1= 4.44 | | | | | **4.44** | | | | |
| | (PWD SR 2018-19/Page No.14/Item No.4.31) | | | | | | | | | |
| | Net Total (L/S) | | | | | **4.44** | **Cum** | **4.44** | **5599.98** | **24863.91** |

| | | | | | | |
|---|---|---|---|---|---|---|
| 12 | KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 | | | | | |
| | Bed Restoration = 60*1.1*0.15= 23.93 | 9.90 | | | | |
| | Lateral linking SWD restoration = 5*1*0.3=1.5 | 1.50 | | | | |
| | (PWD SR 2018-19/Page No.159/Item No.4.11) | | | | | |
| | Net Total | 11.40 | Cum | 11.40 | 6011.00 | 68525.4 |
| | | | | | | |
| | | | | | SUB TOTAL | 6,69,273 |
| | GST 12% | | | | | 80,313 |
| | Advertisment chages, Miscellaneous & Rounding off | | | | | 415 |
| | | | | | GRAND TOTAL | 7,50,000 |

Assistant Engineer
ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Executive Engineer
Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

**Administrative Approval**

Accorded For Rs 7.50 Lakhs only
Head of A/C P3295
CER NO :...22..... Dt:: 09.11.2020

ASSISTANT EXECUTIVE ENGINEER (TNK)

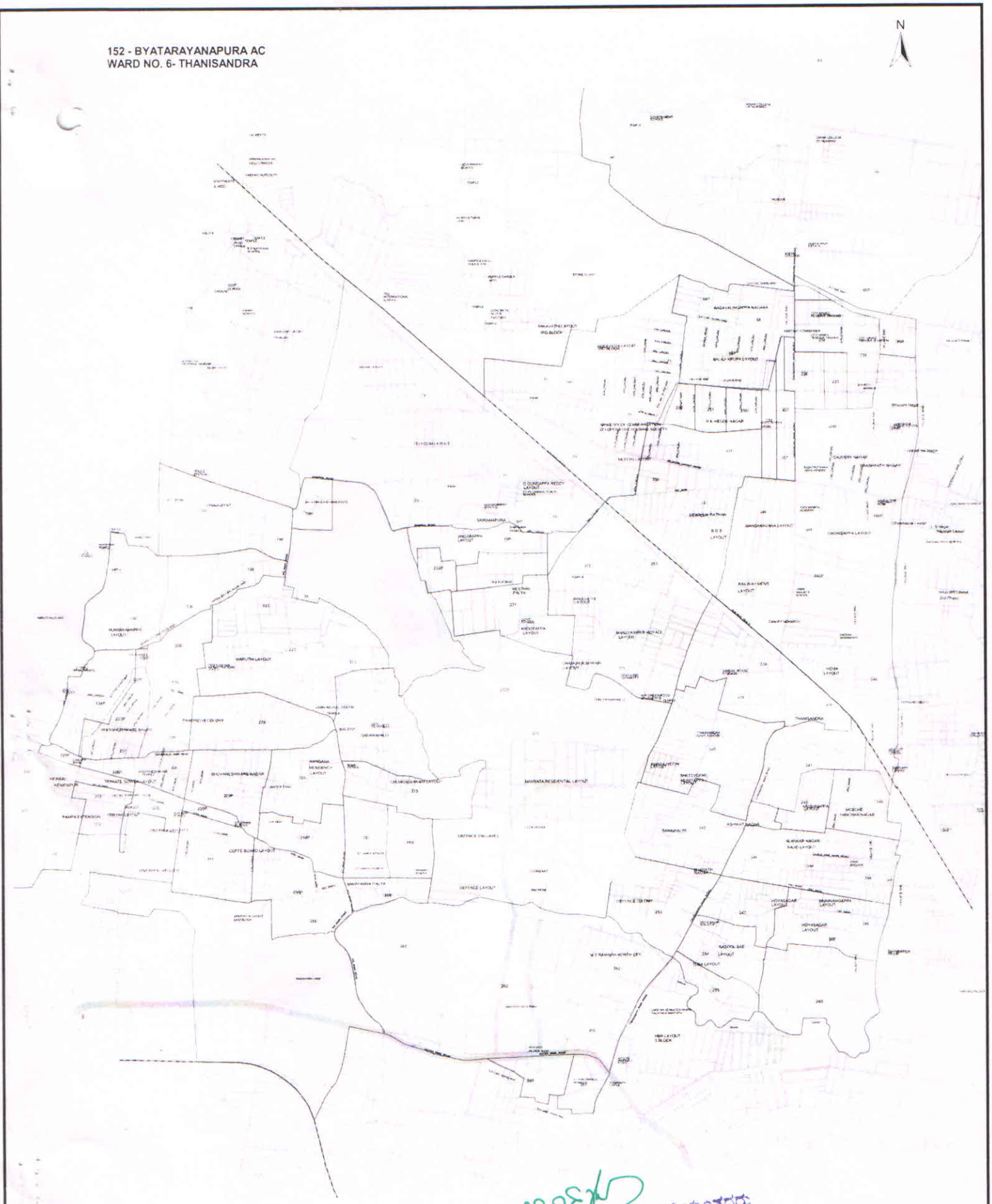
**TECHNICAL SANCTION**

Accorded For Rs. 7.50 Lakhs only
Head of A/c. P3295
Div. Ref. No. 81 Date. 01/12/2020

AE

EE(BTP) 01/12

152 - BYATARAYANAPURA AC
WARD NO. 6- THANISANDRA




ಸಹಾಯಕ ಅಧಿಯರಕರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24